

FIG. 1

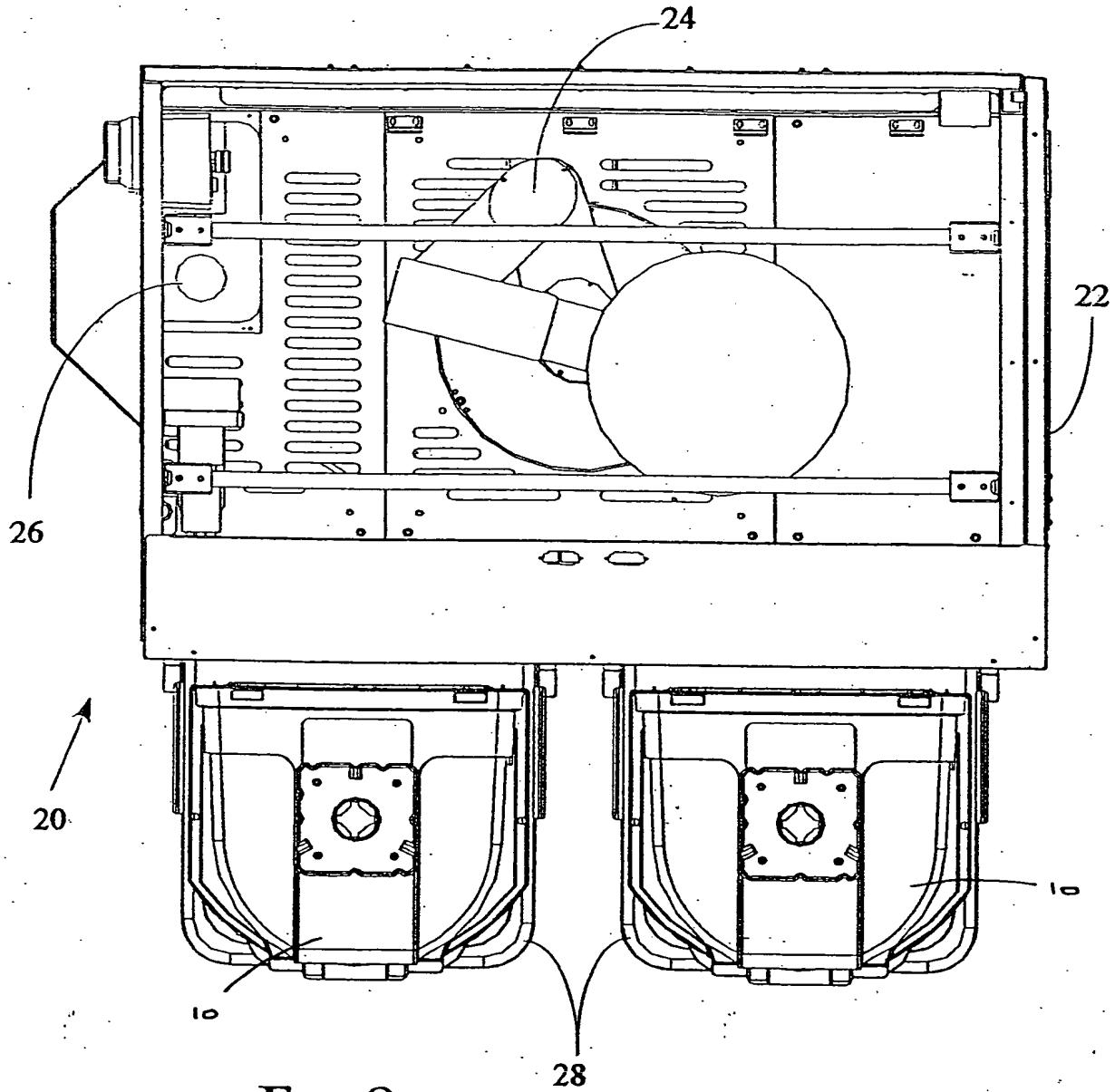


FIG. 2

10087092.030102

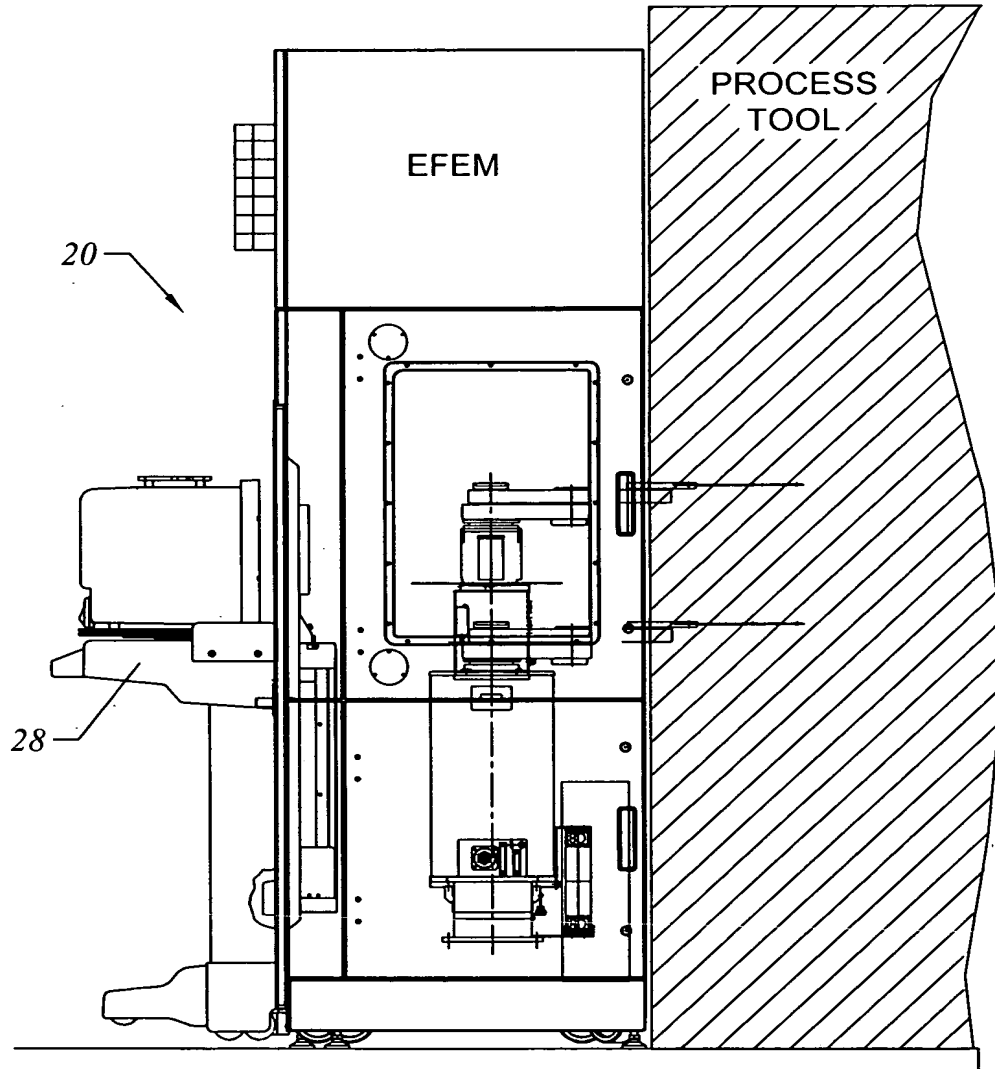


FIG. 3

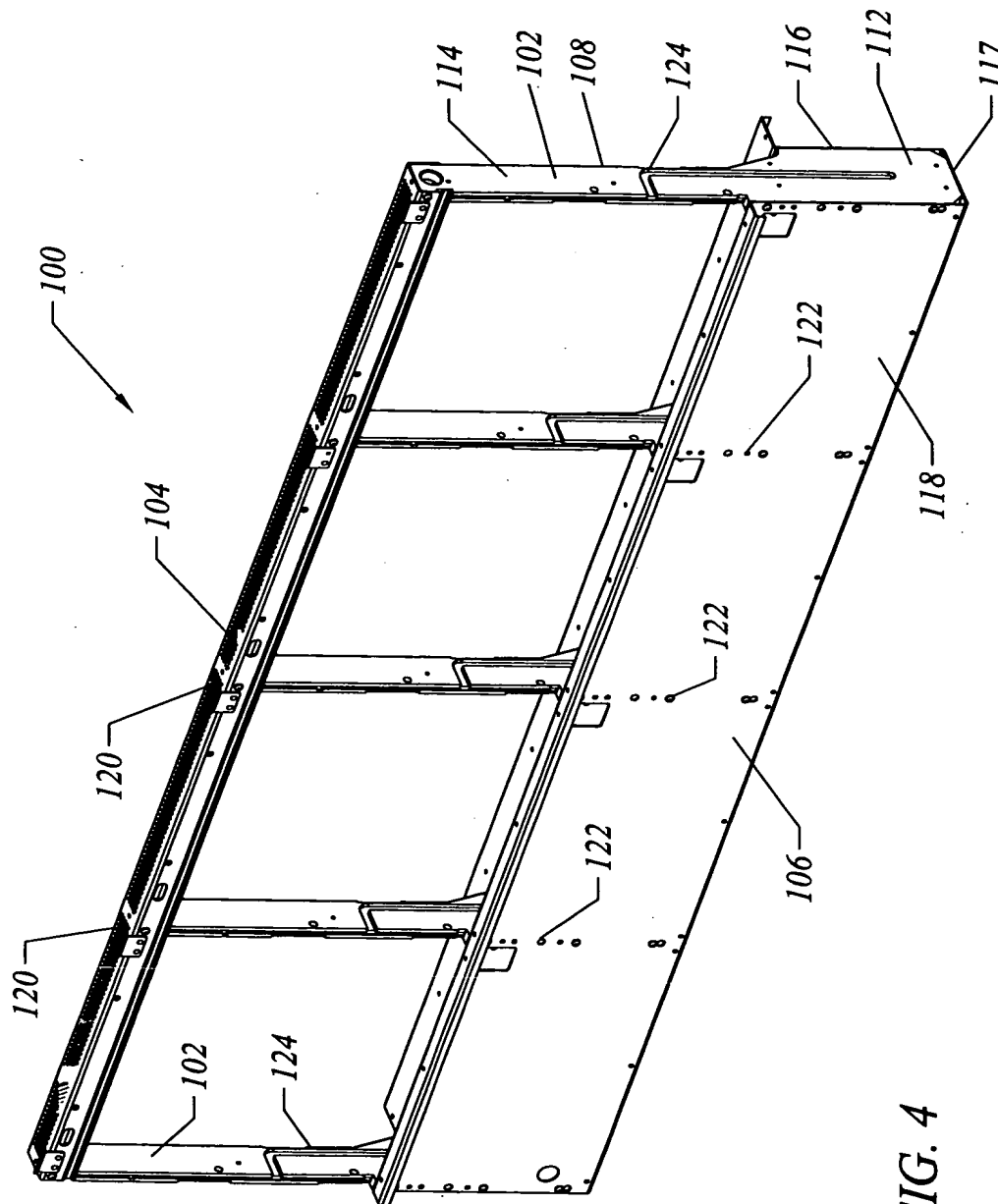


FIG. 4

207020" 2604800F

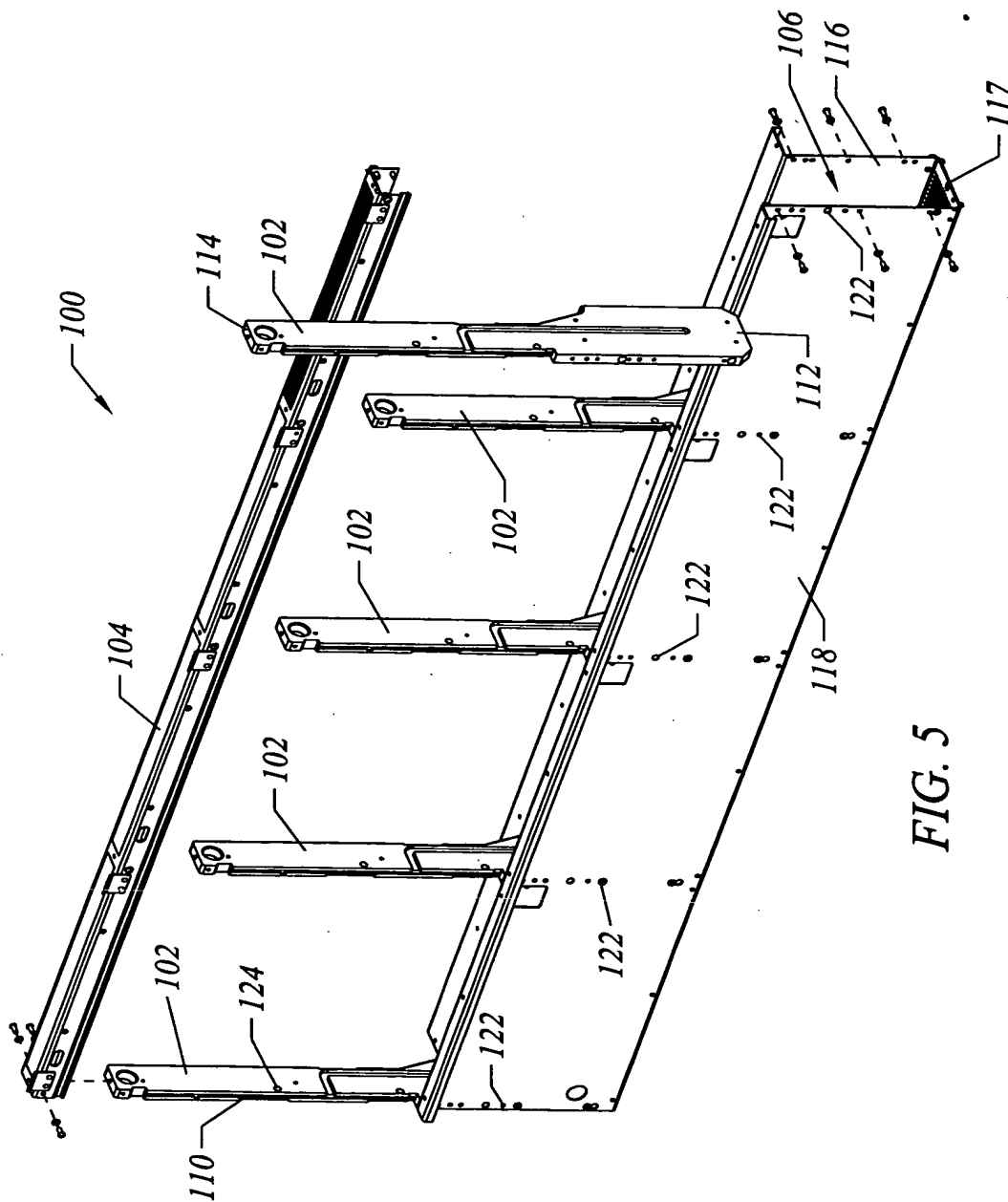


FIG. 5

20100107 26048007

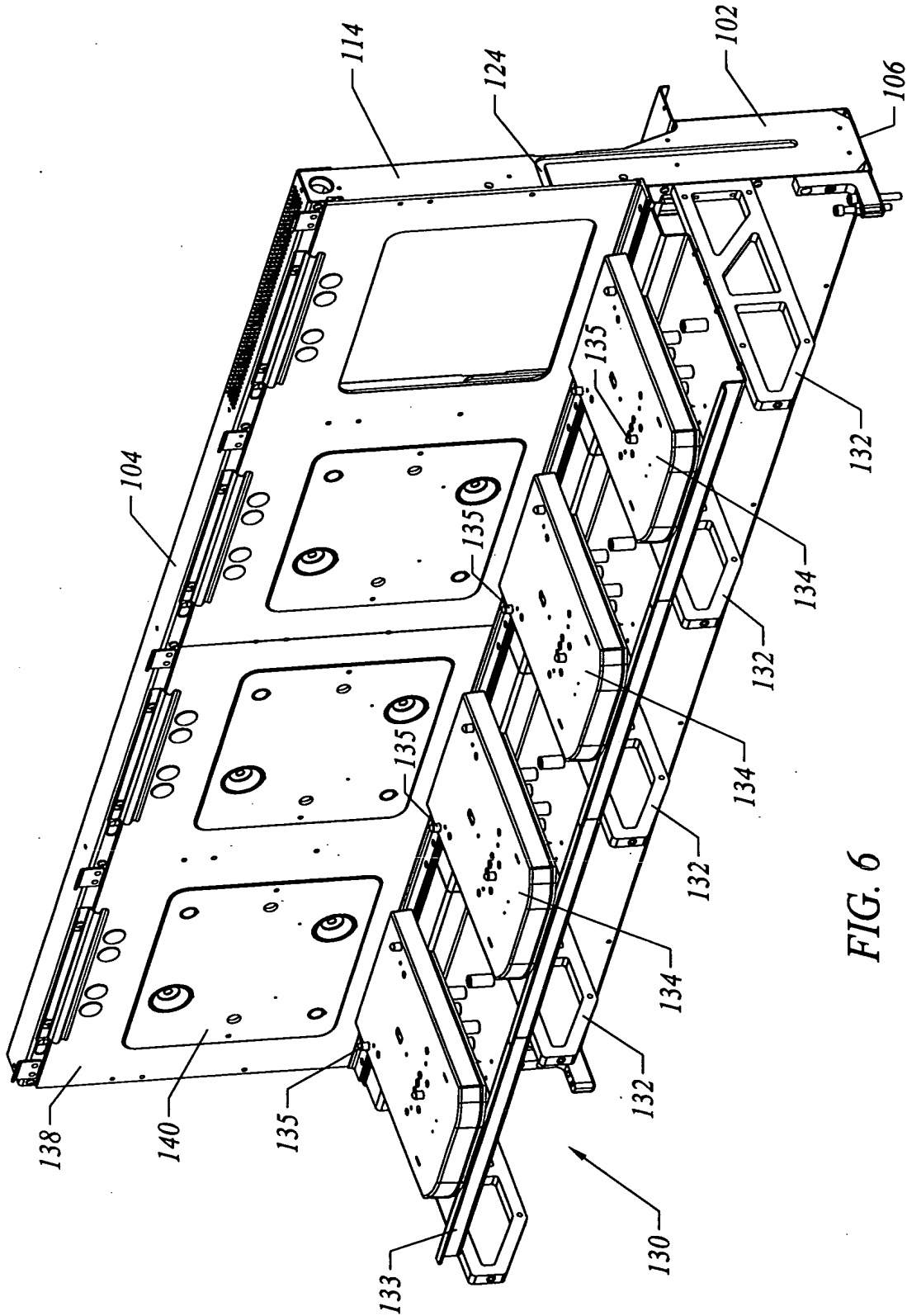


FIG. 6

20T080" 2604800T

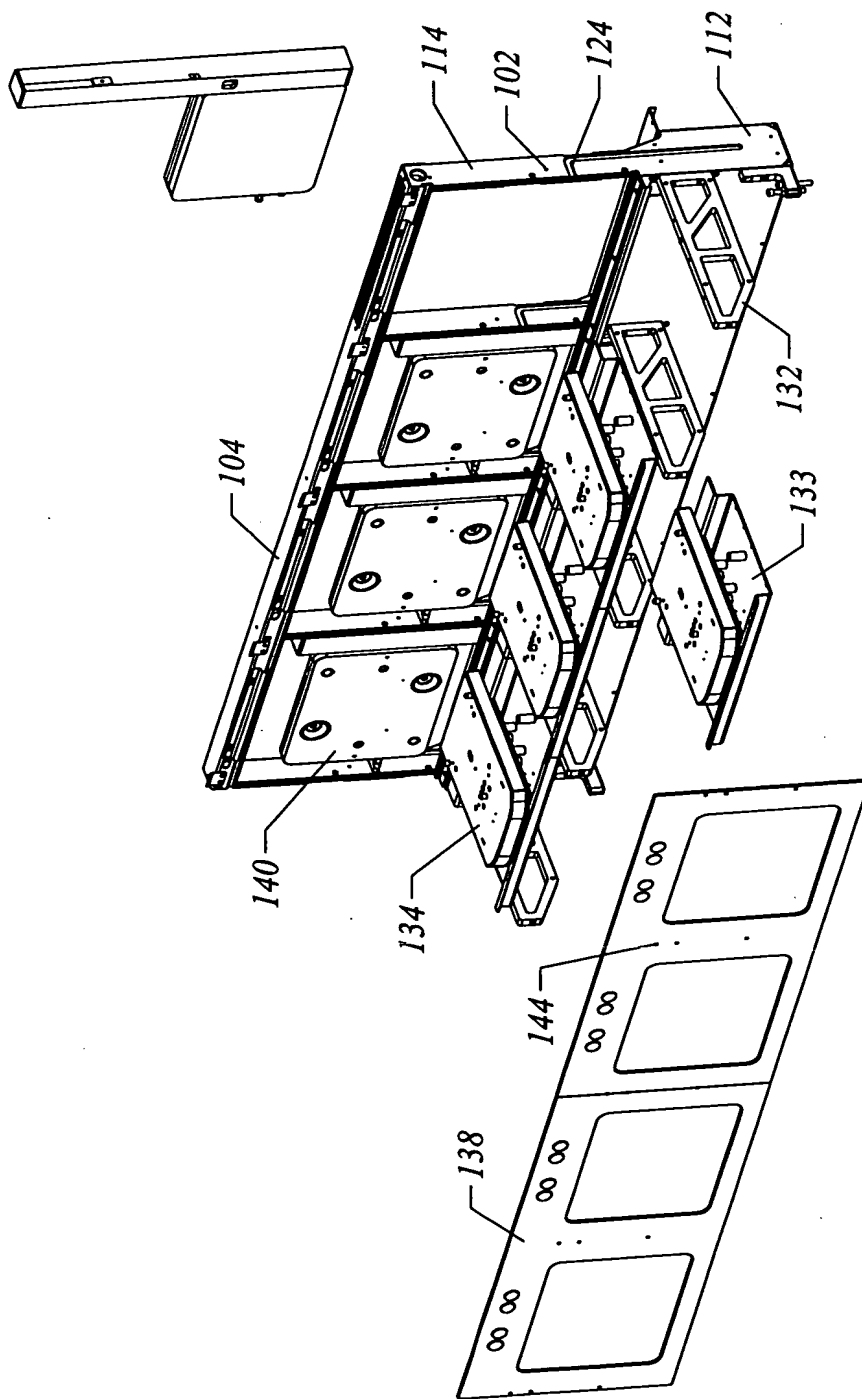


FIG. 7

2070E0 2602800F

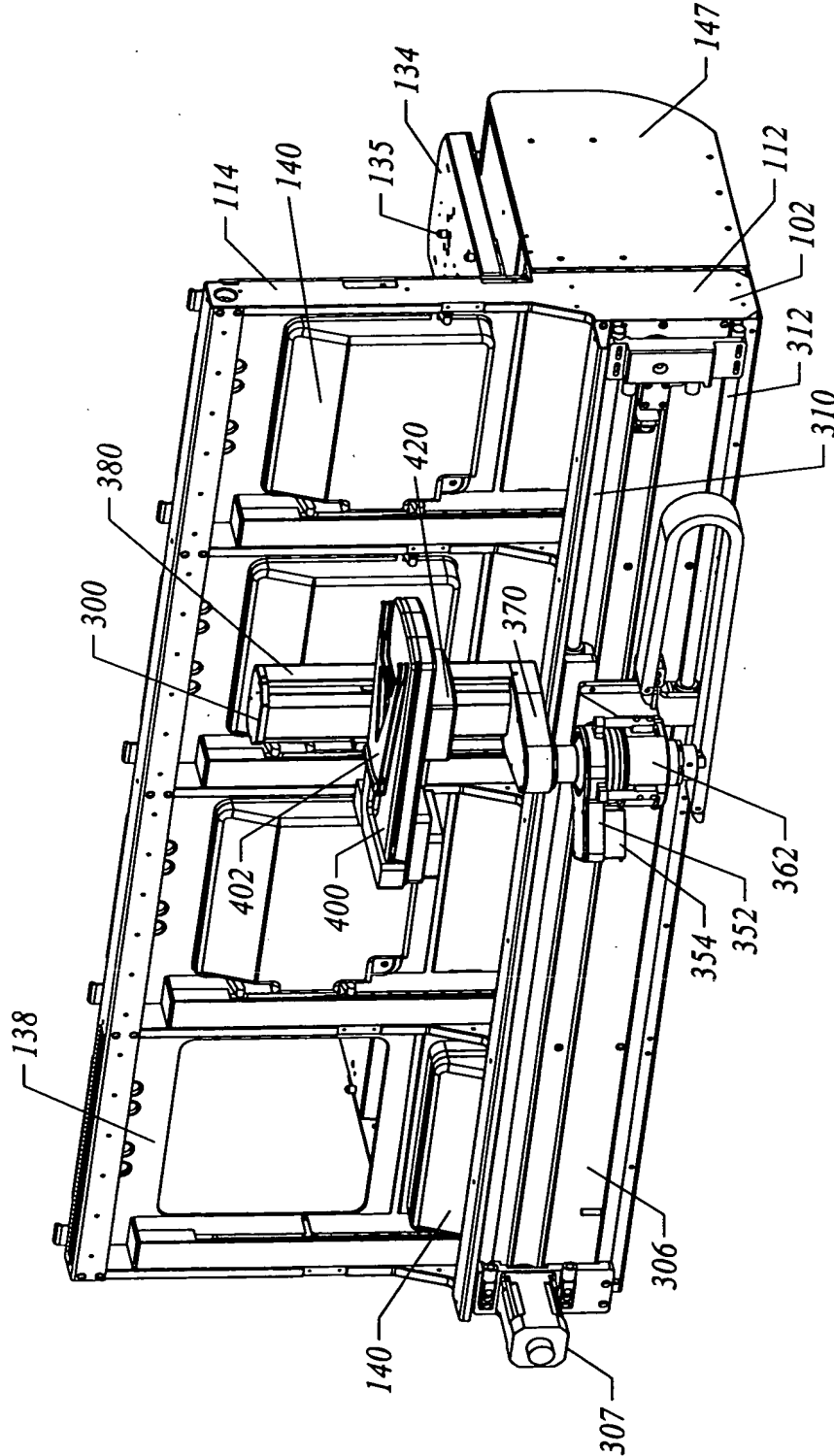


FIG. 8

2070E0 " 260/800T

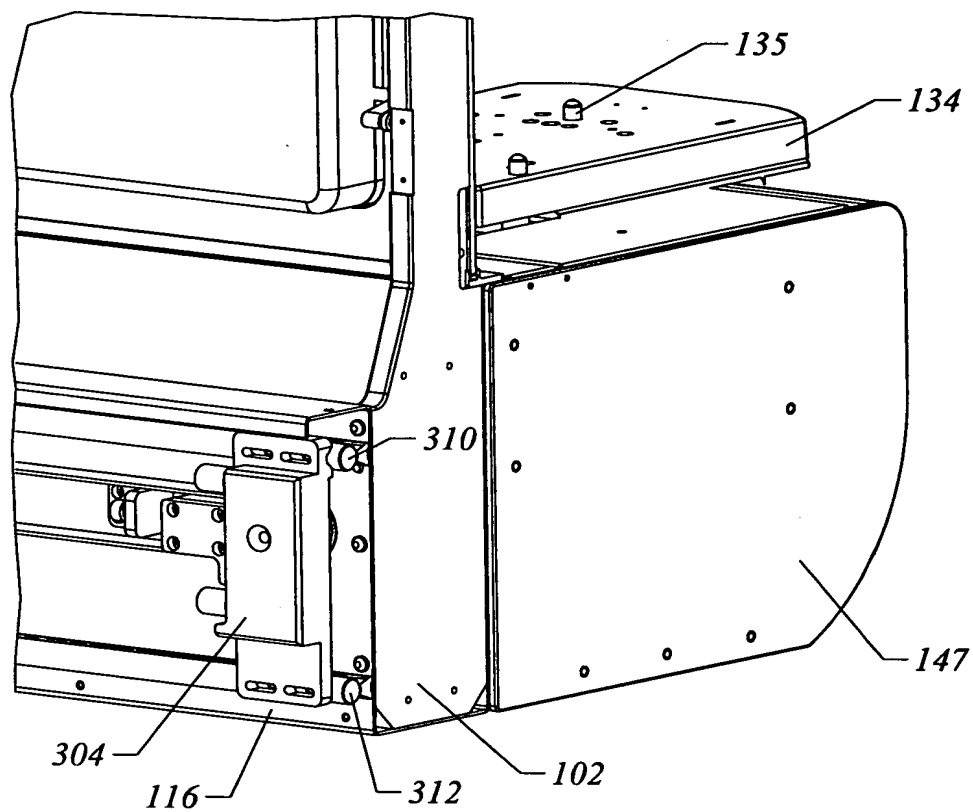


FIG. 9

10087092 "030102  
20100226

2070726215US

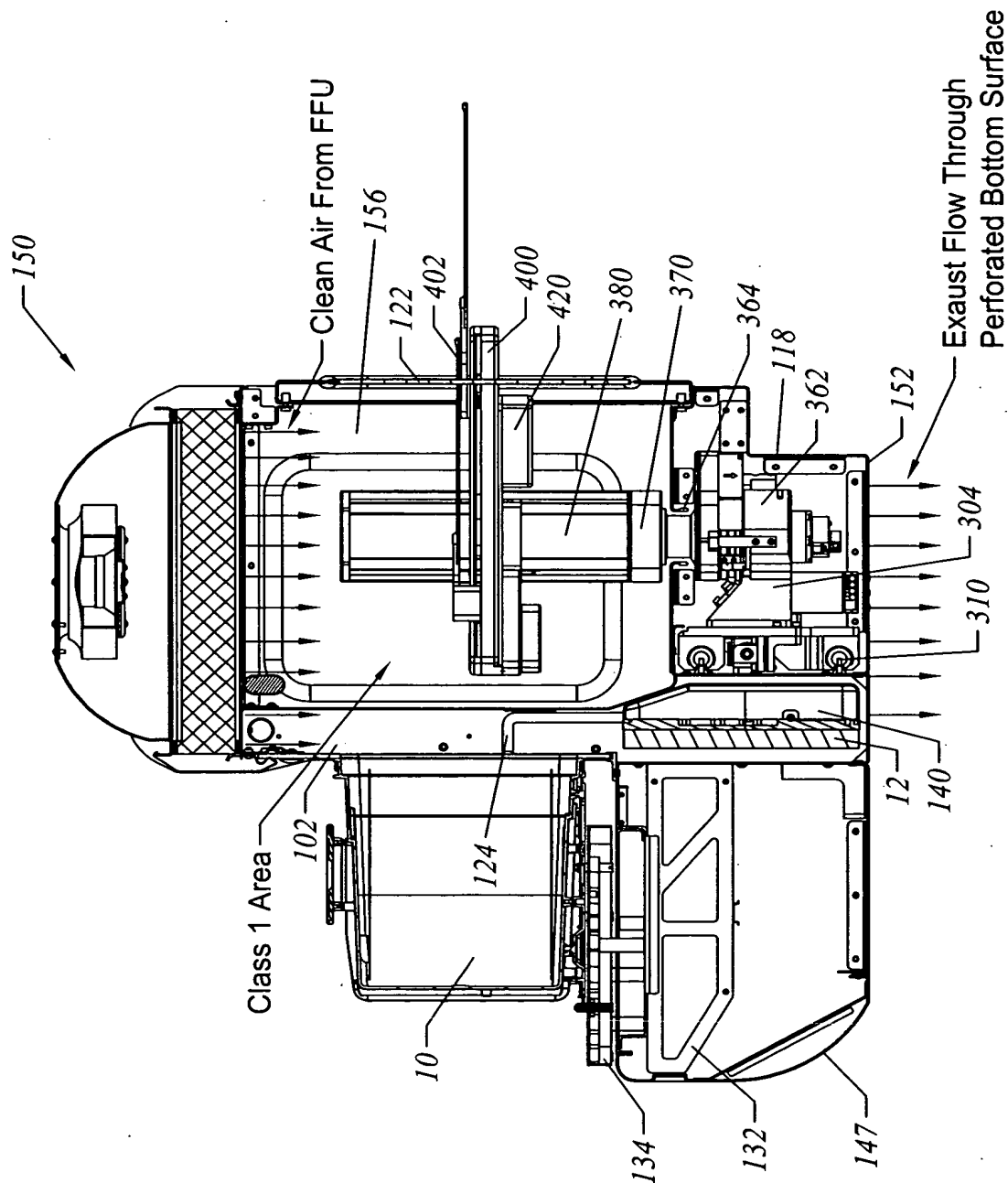


FIG. 10

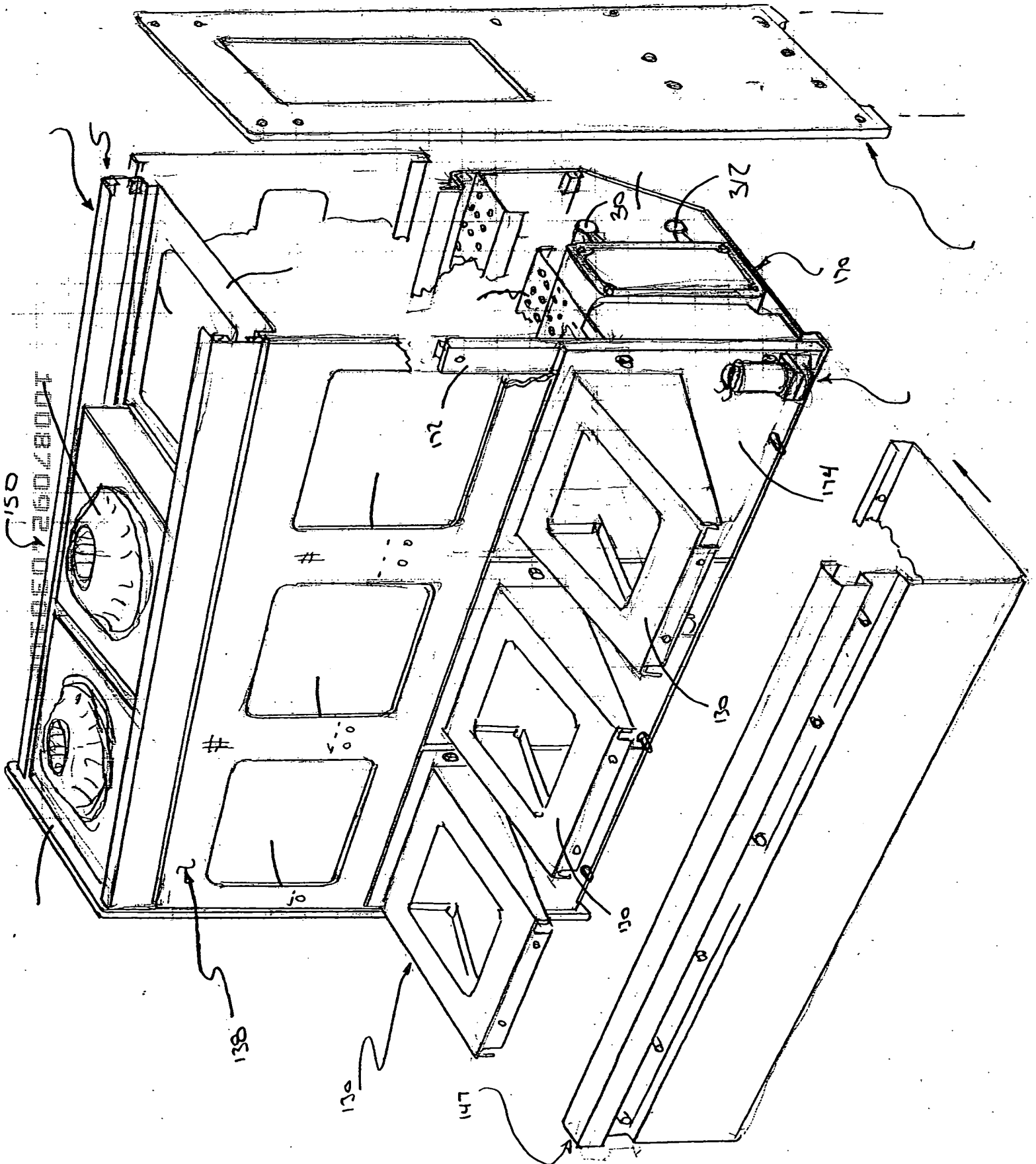


FIG. 11

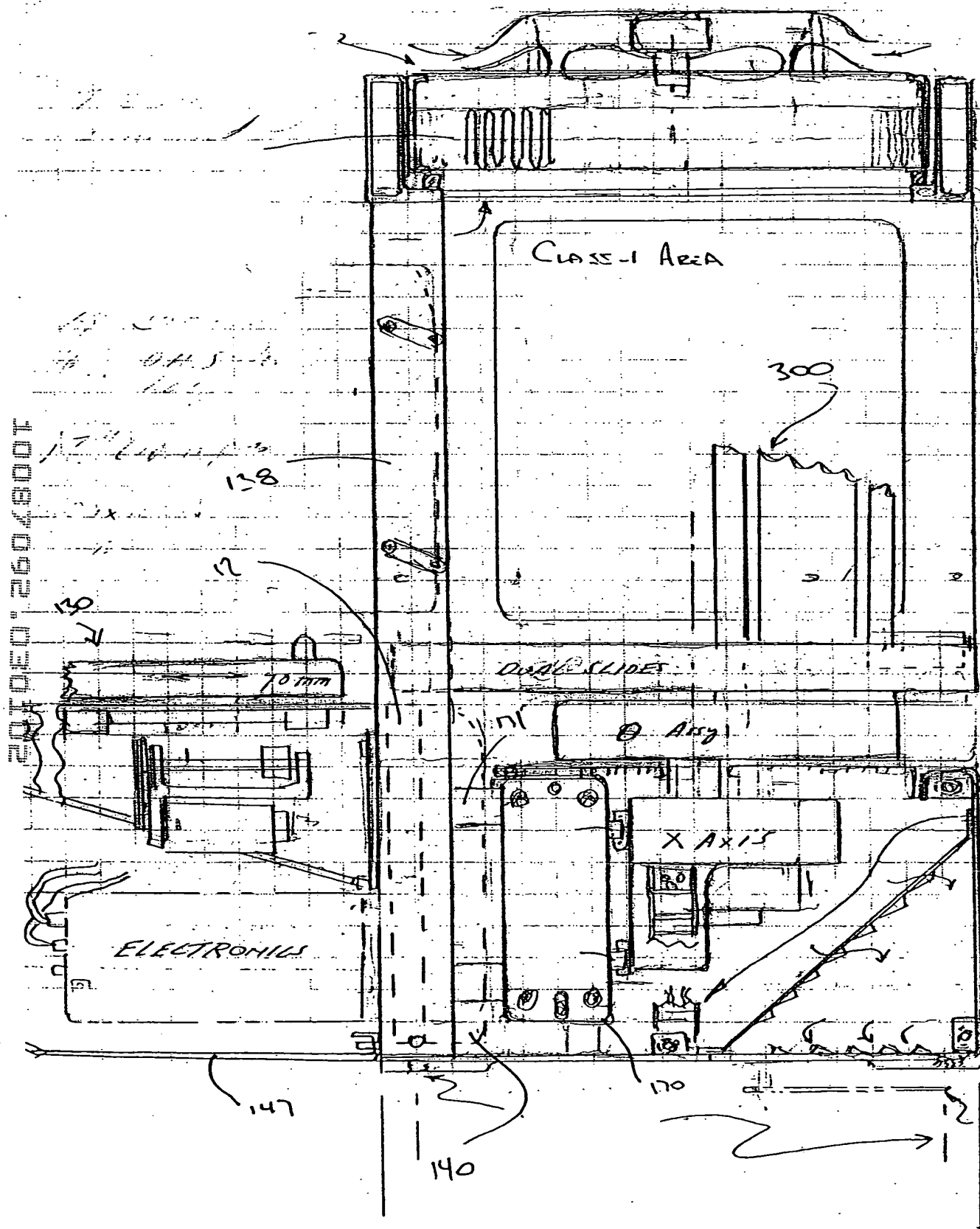


FIG. 12

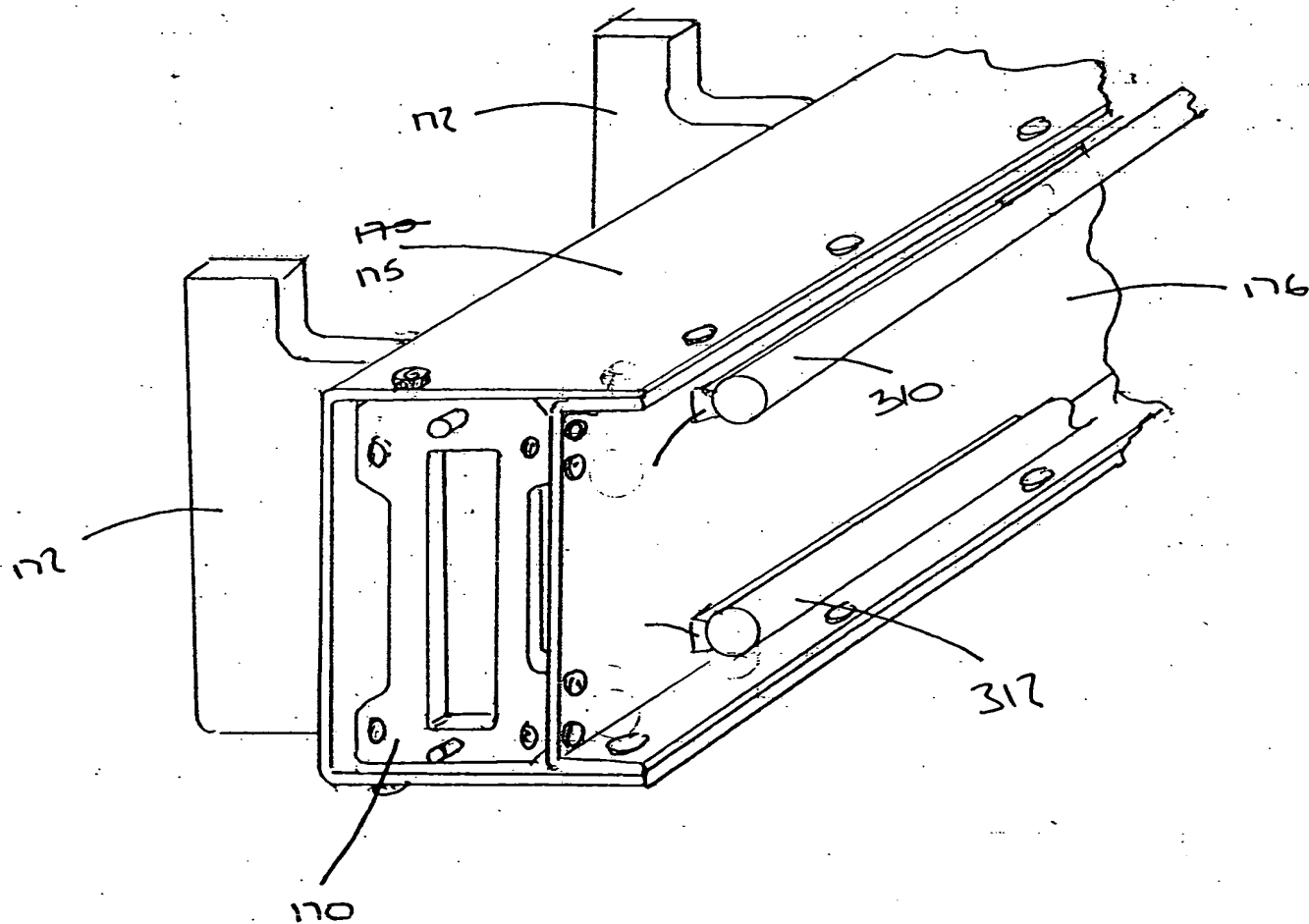


FIG. 13

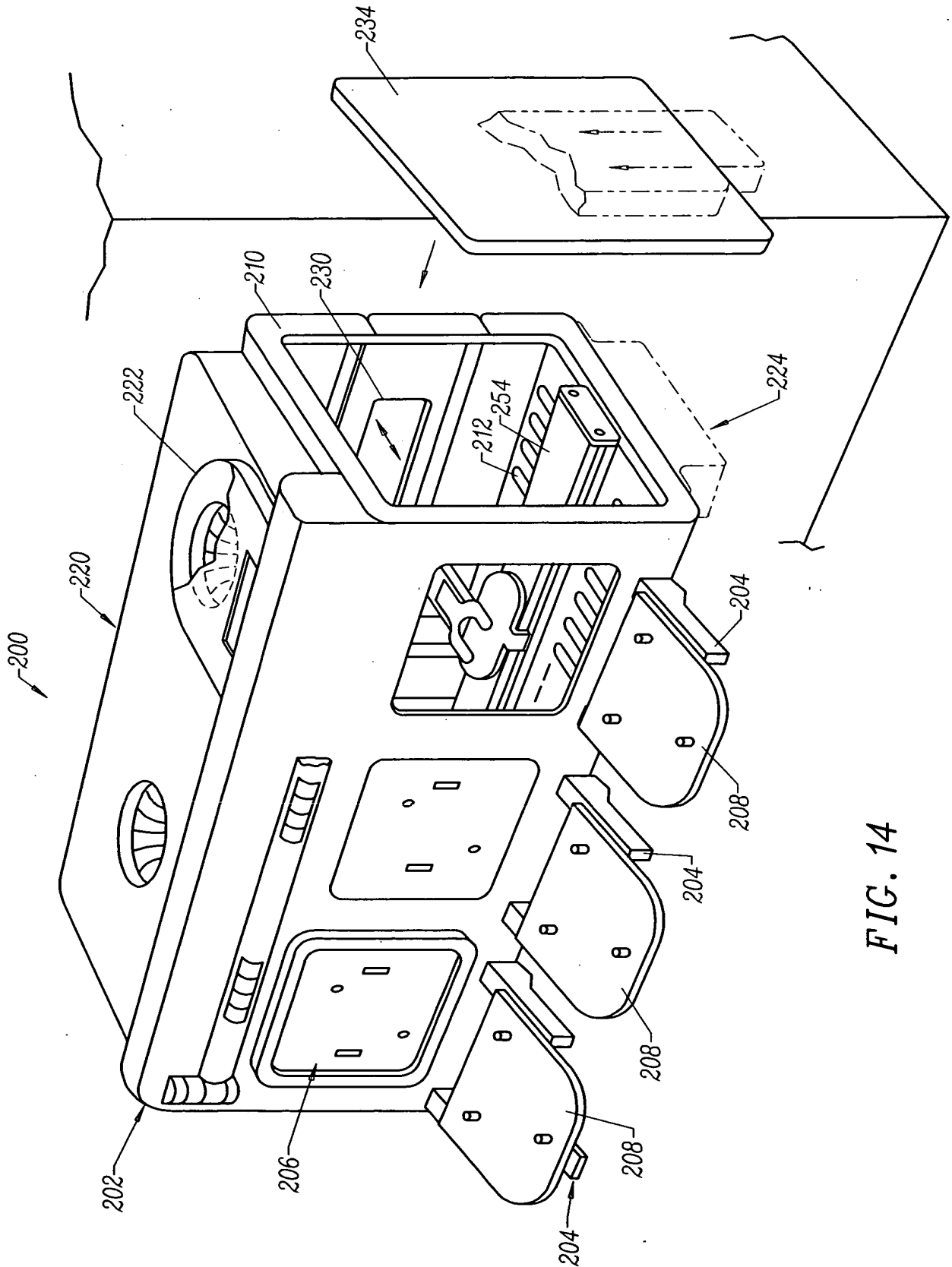


FIG. 14

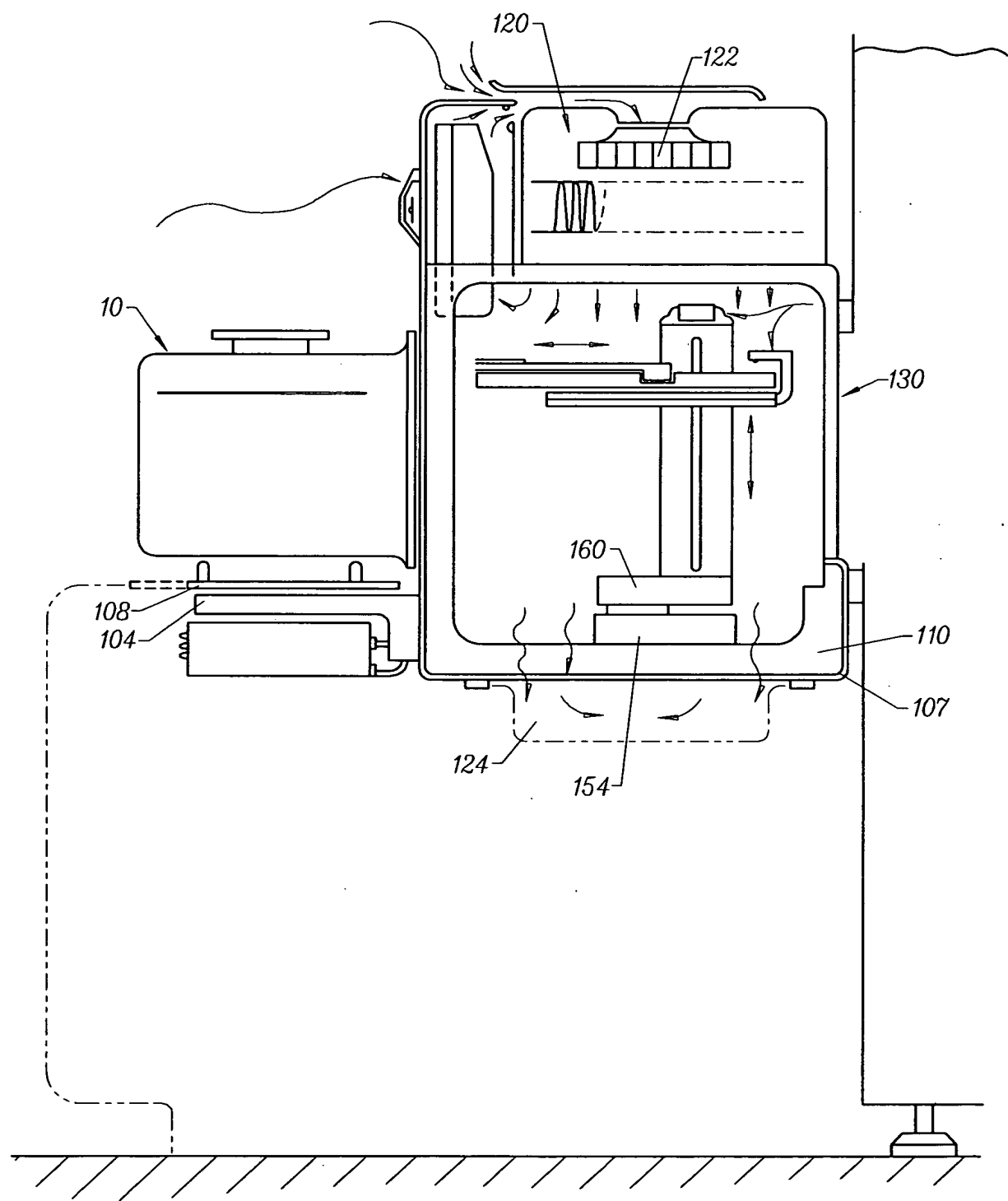
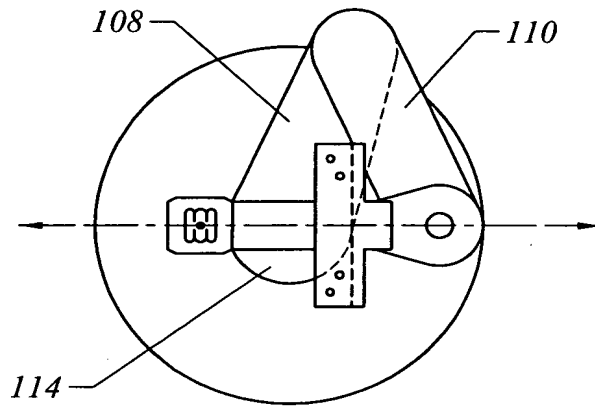
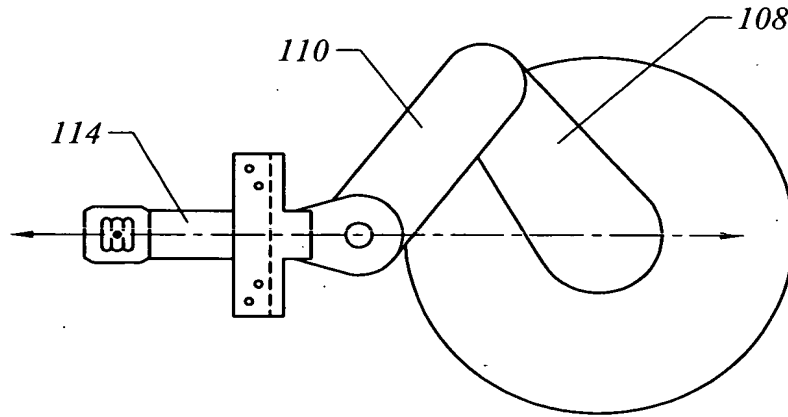


FIG. 15



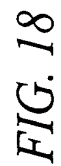


*FIG. 17A*  
(Prior Art)



*FIG. 17B*  
(Prior Art)

2010087099.030102



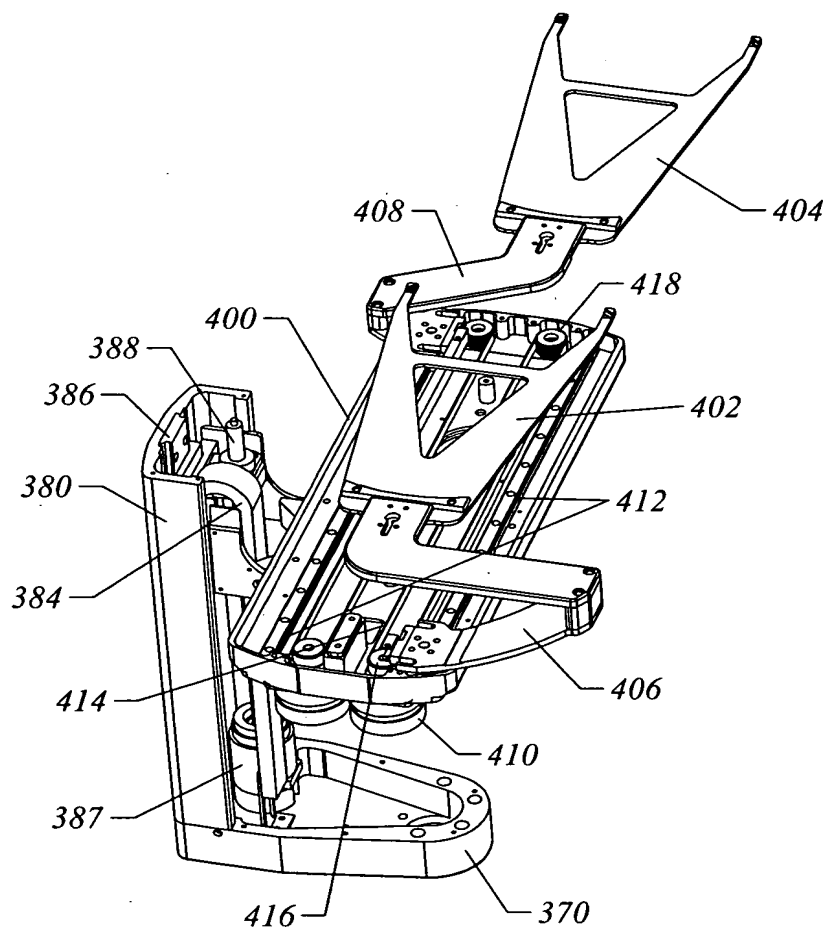


FIG. 19

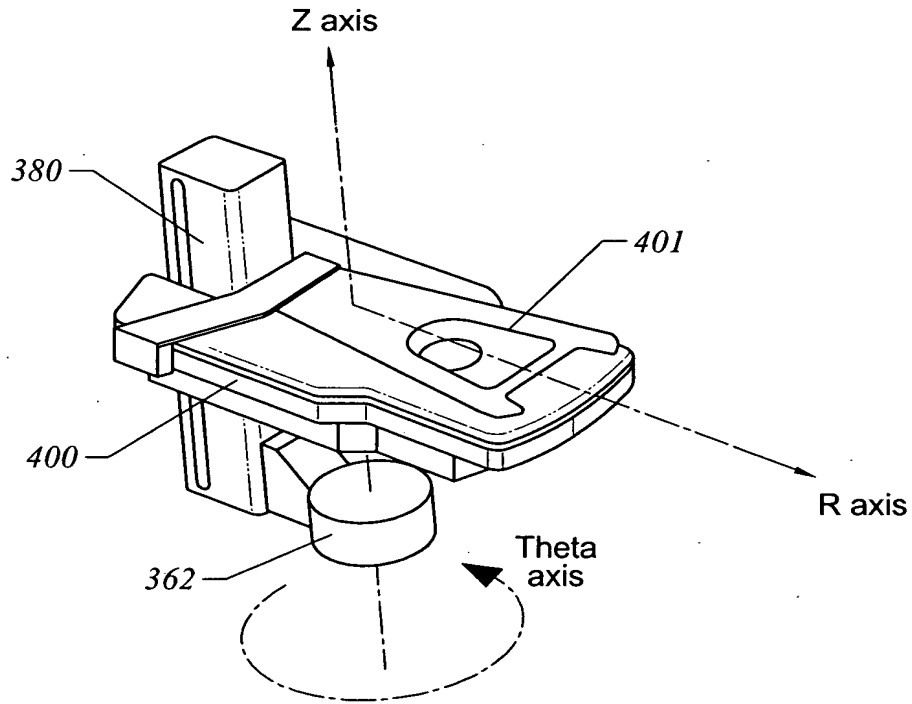


FIG. 20

10087092, 030102

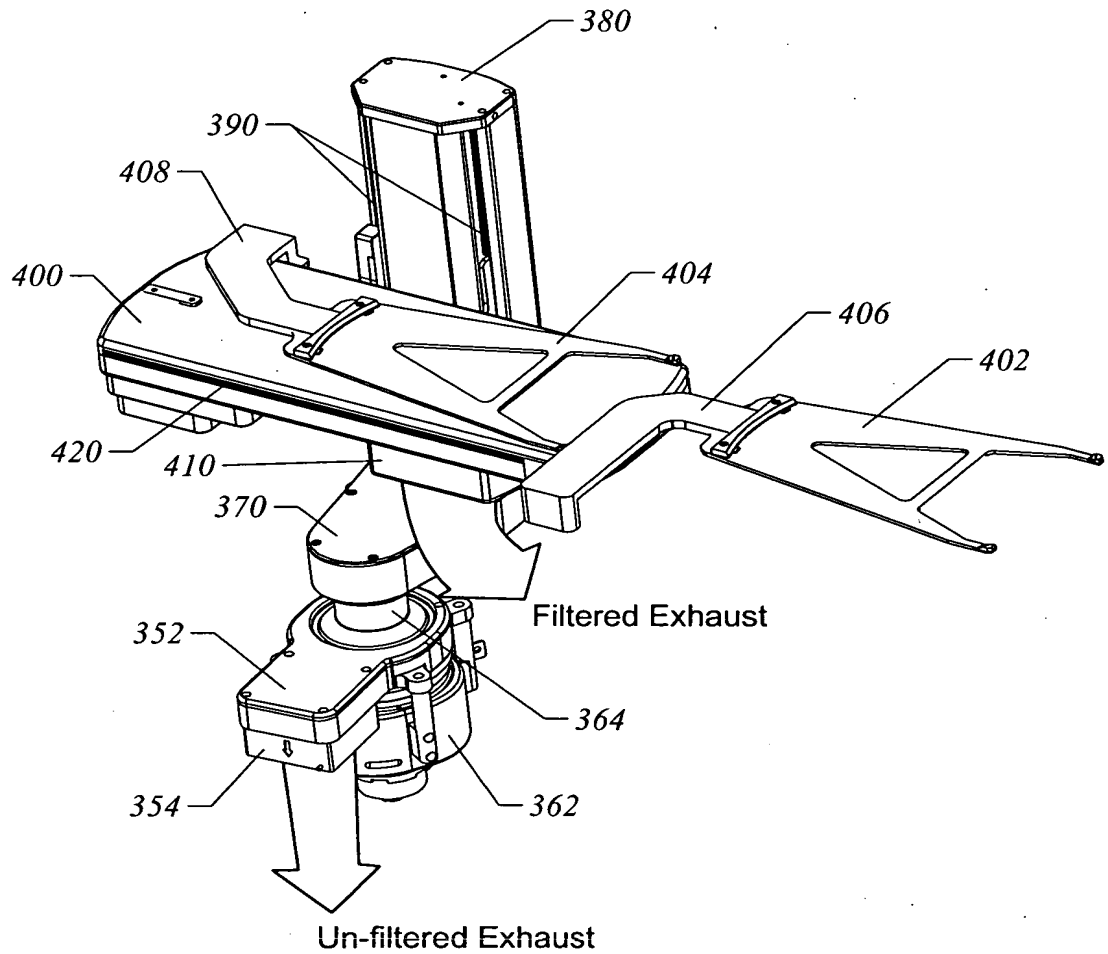


FIG. 21

10087092.030102

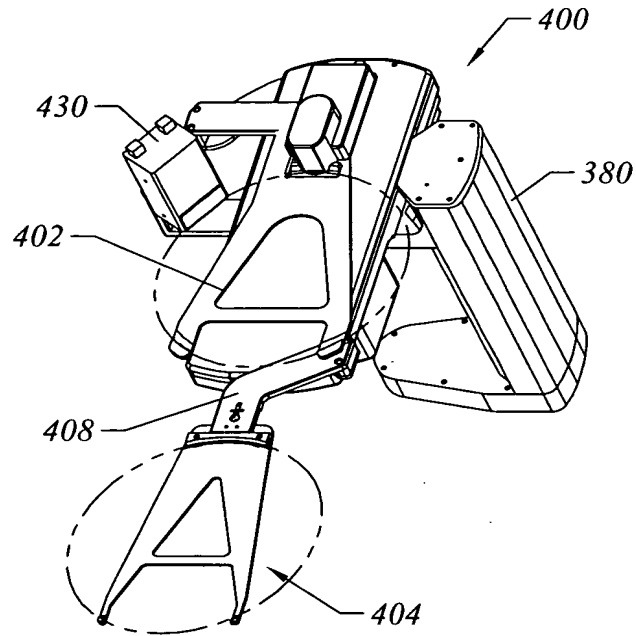


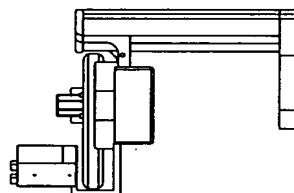
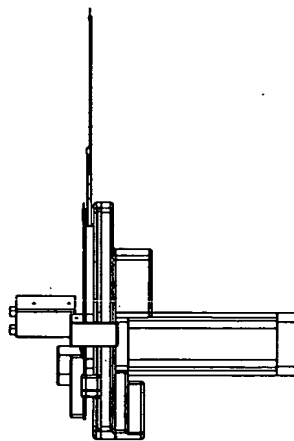
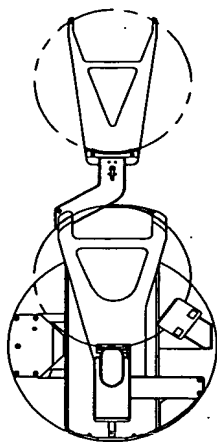
FIG. 22A

20100926028001

Title: SEMICONDUCTOR MATERIAL HANDLING SYSTEM  
Docket No.: SYS08197US0 Inventor(s): Anthony C. Bon  
Serial No.: Unknown Attorney: Scott D. Sanford  
Confirm No.: Unknown Phone: (415) 362-3800  
Filed: Herewith Express Mail No.: EL670726215US

Sheet 23 of 34

1006709E 030102



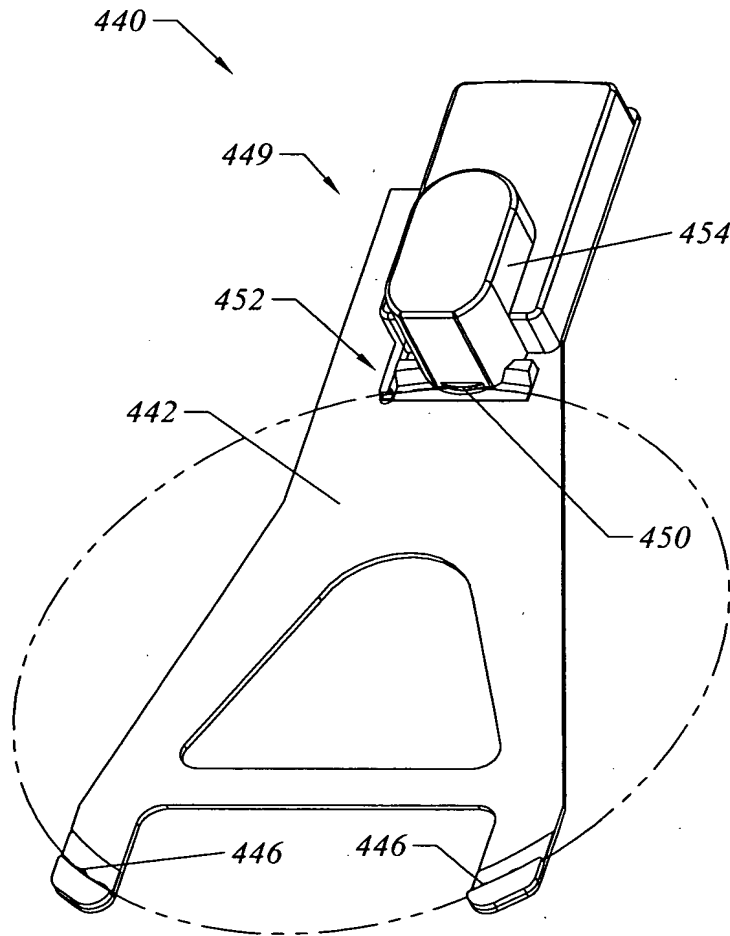


FIG. 23

10087092.030102  
2010E0" 2602800T

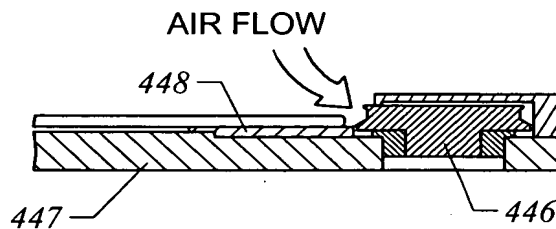


FIG. 24A

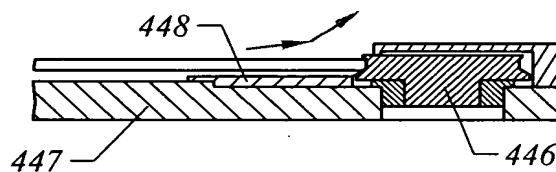


FIG. 24B

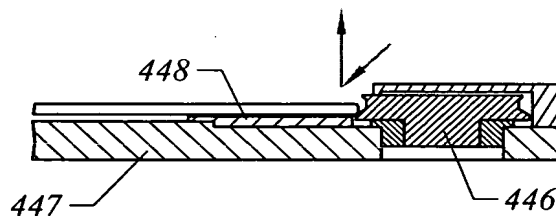


FIG. 24C

20100927 2604800T

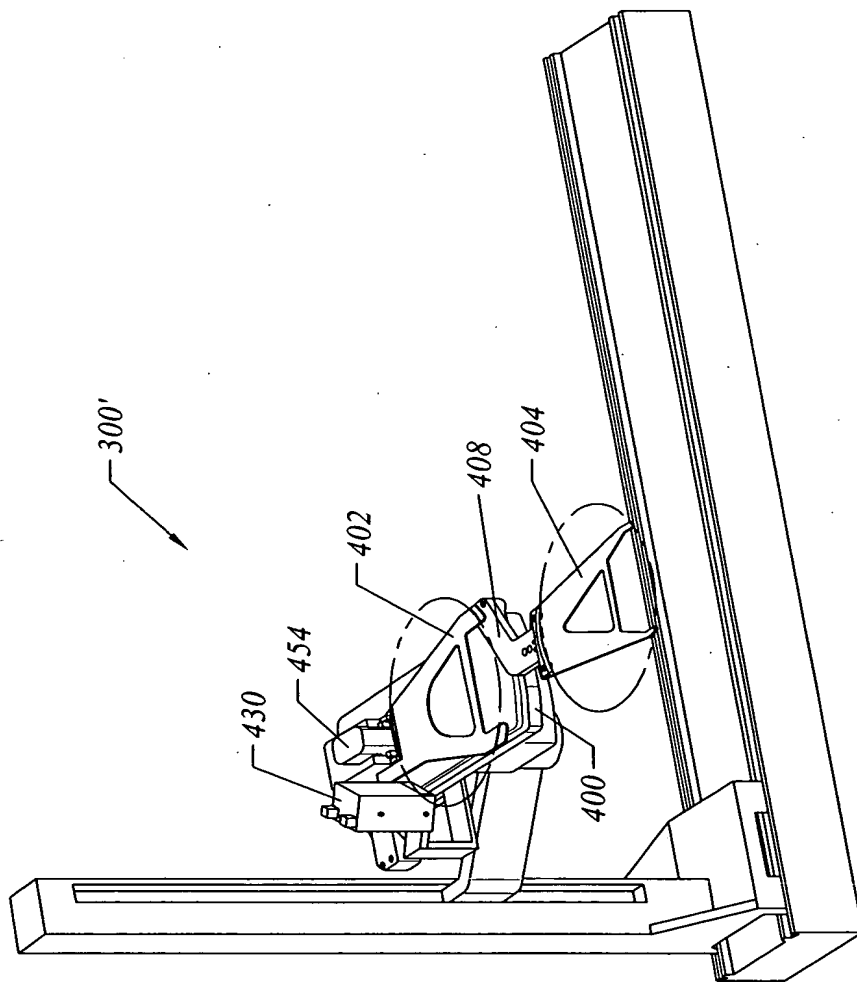


FIG. 25

2070ED" 2604800T

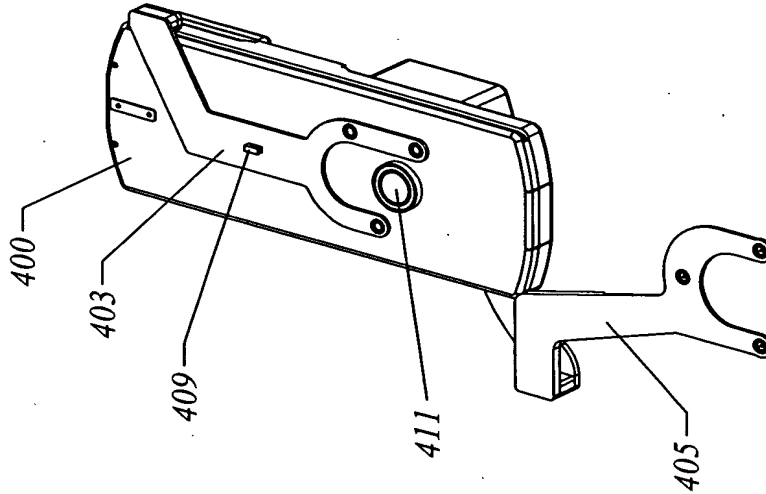


FIG. 26B

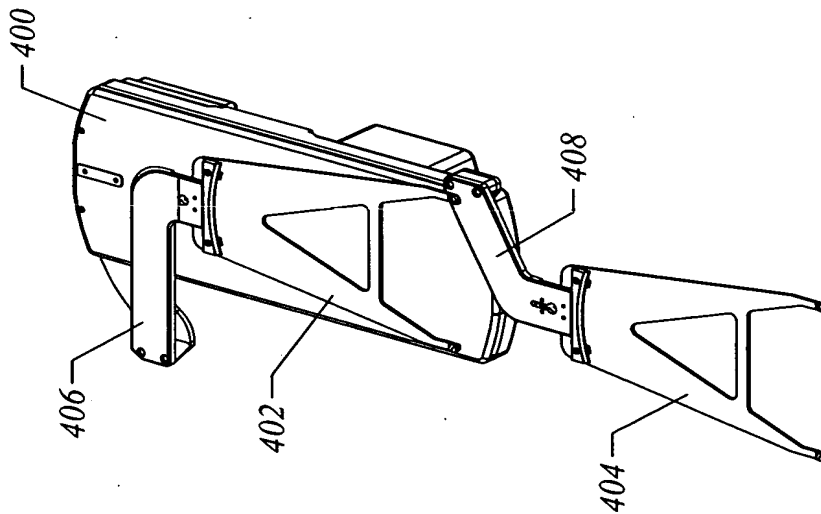
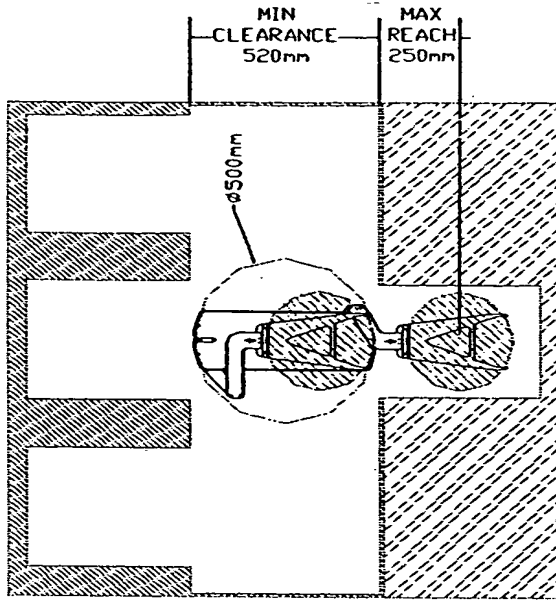


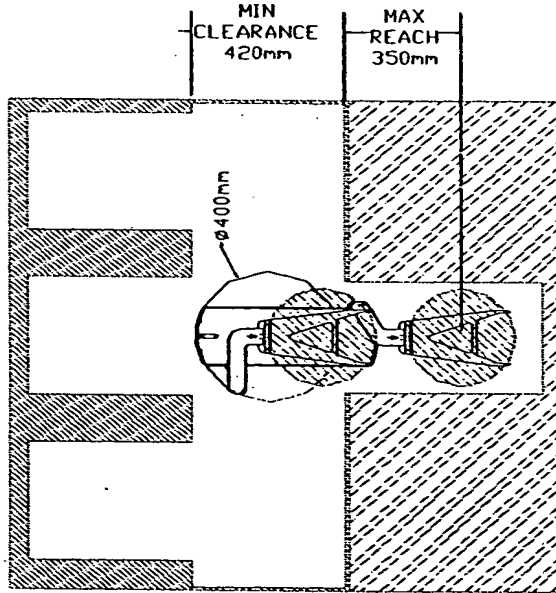
FIG. 26A

2070E0" 2602800F

Conventional Linear Slide Robot



Off-Center Slide-Body (50mm offset)



EFEM  
 Process Tool

FK.27A

FK.27B

2070EO" 260/800T

10087092 "030102"

Example motion sequence for rapid swap slide-body with off center rotation axis.

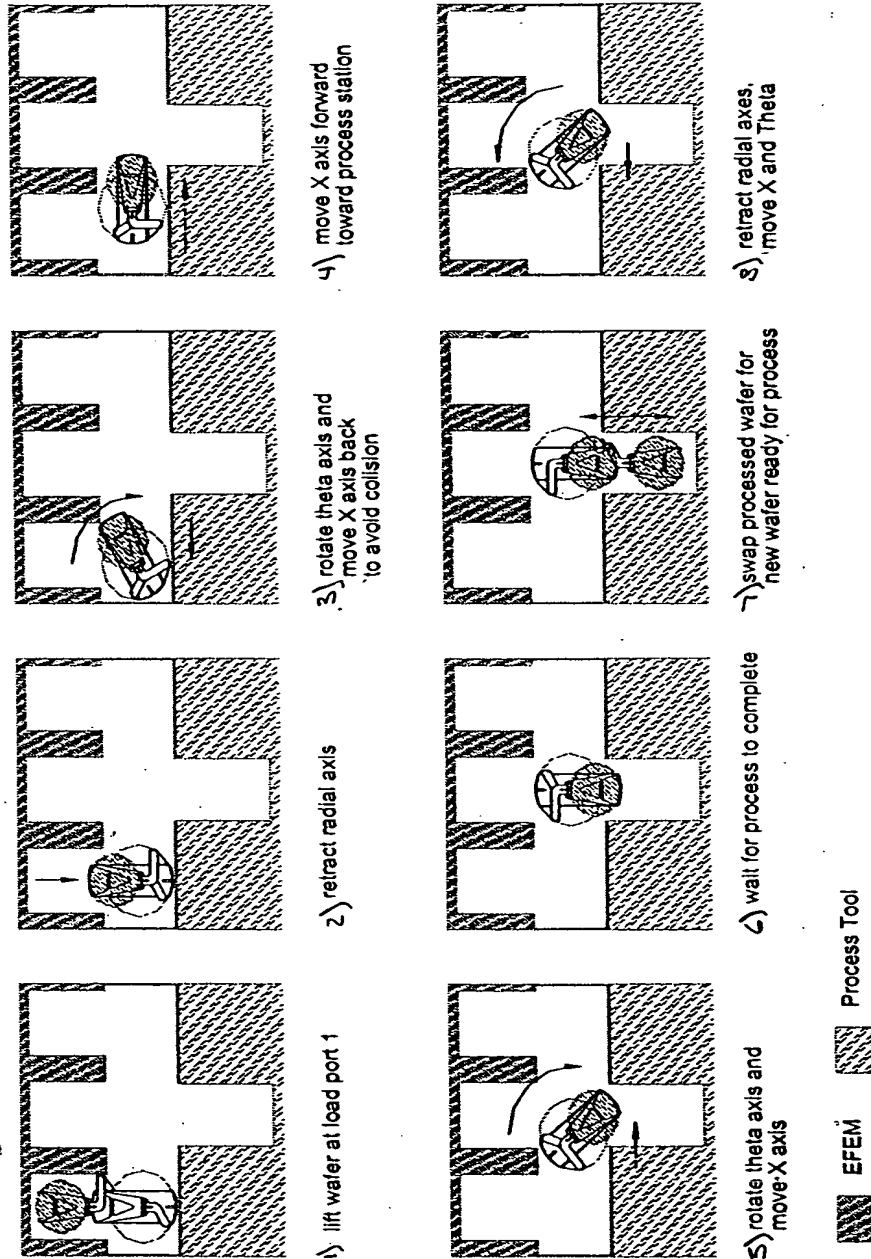
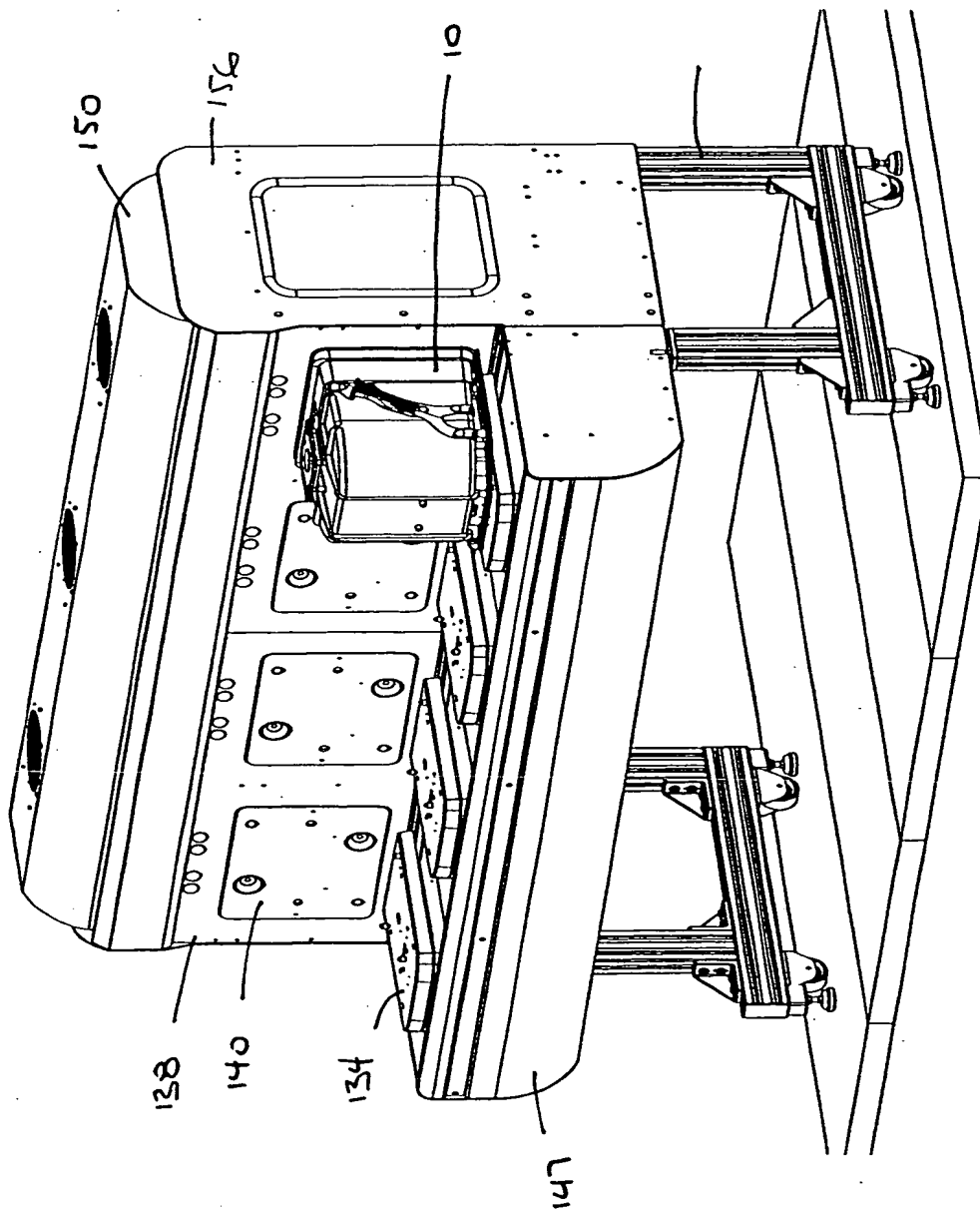


FIG. 28



2070ED 260Z800T

201007092 26028001

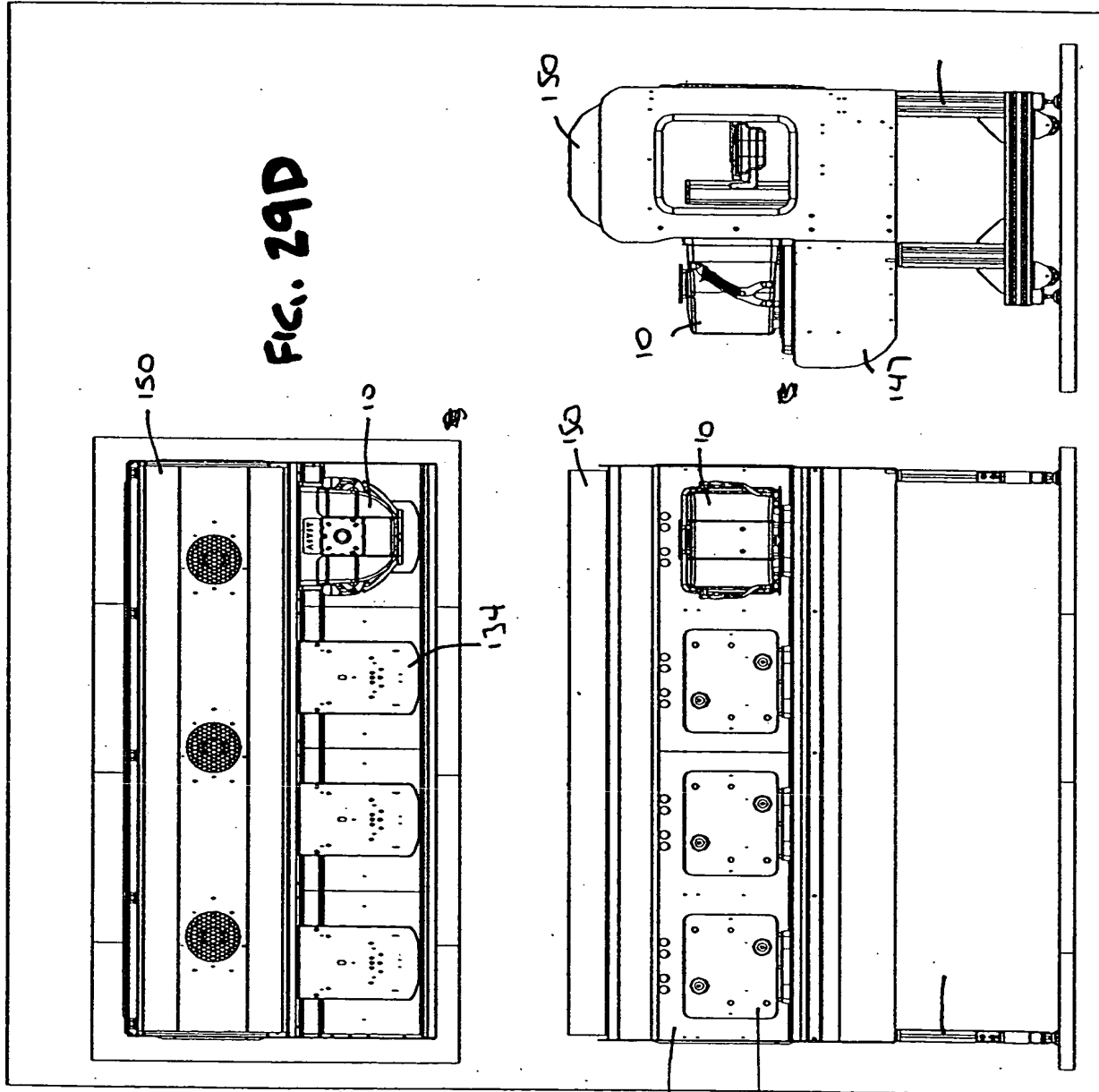
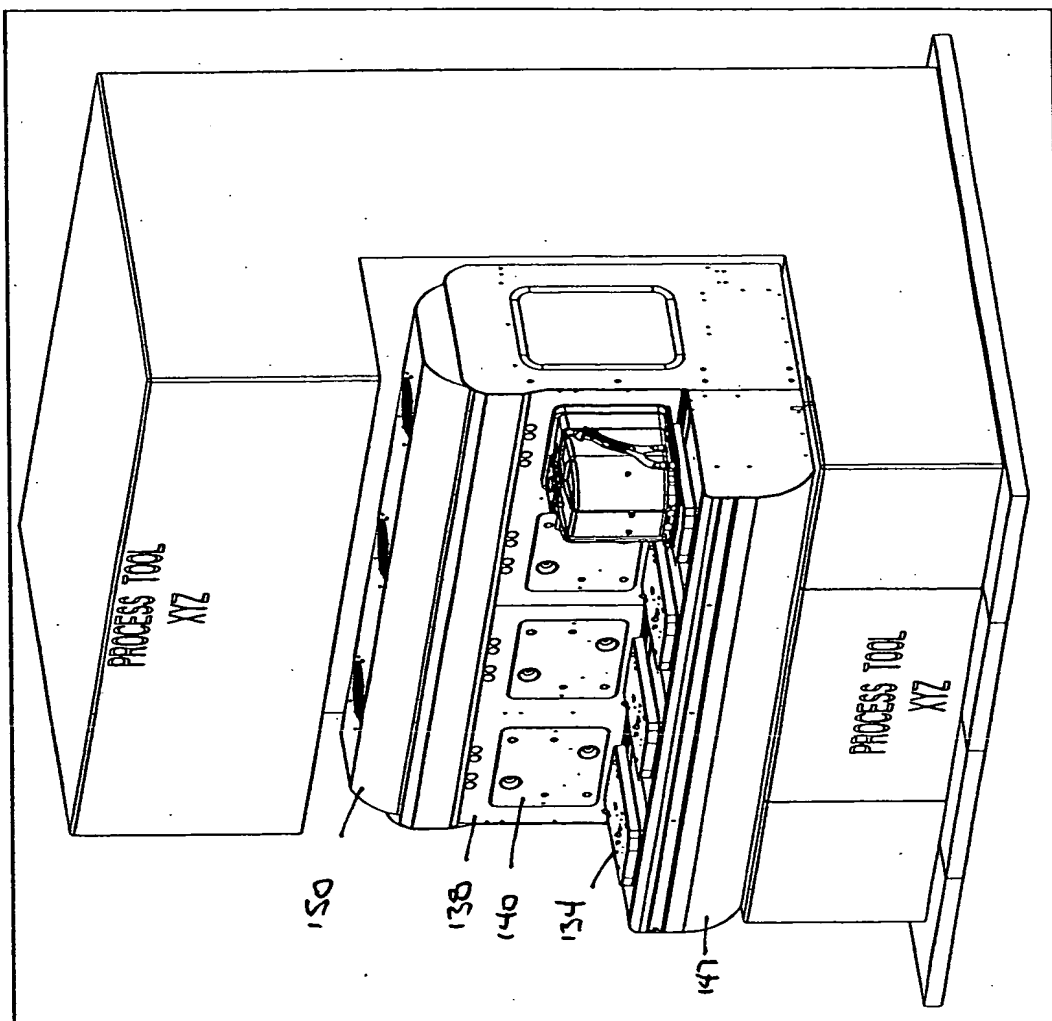


FIG. 29C

FIG. 29B

Title: SEMICONDUCTOR MATERIAL HANDLING SYSTEM  
Docket: ASYS08197US0 Inventor(s): Anthony C. [REDACTED]  
Serial No: Unknown Attorney: Scott D. San [REDACTED]  
Confirm No: Unknown Phone: (415) 362-3800  
Filed: Herewith Express Mail No.: EL670726215US



**FIG 30A**

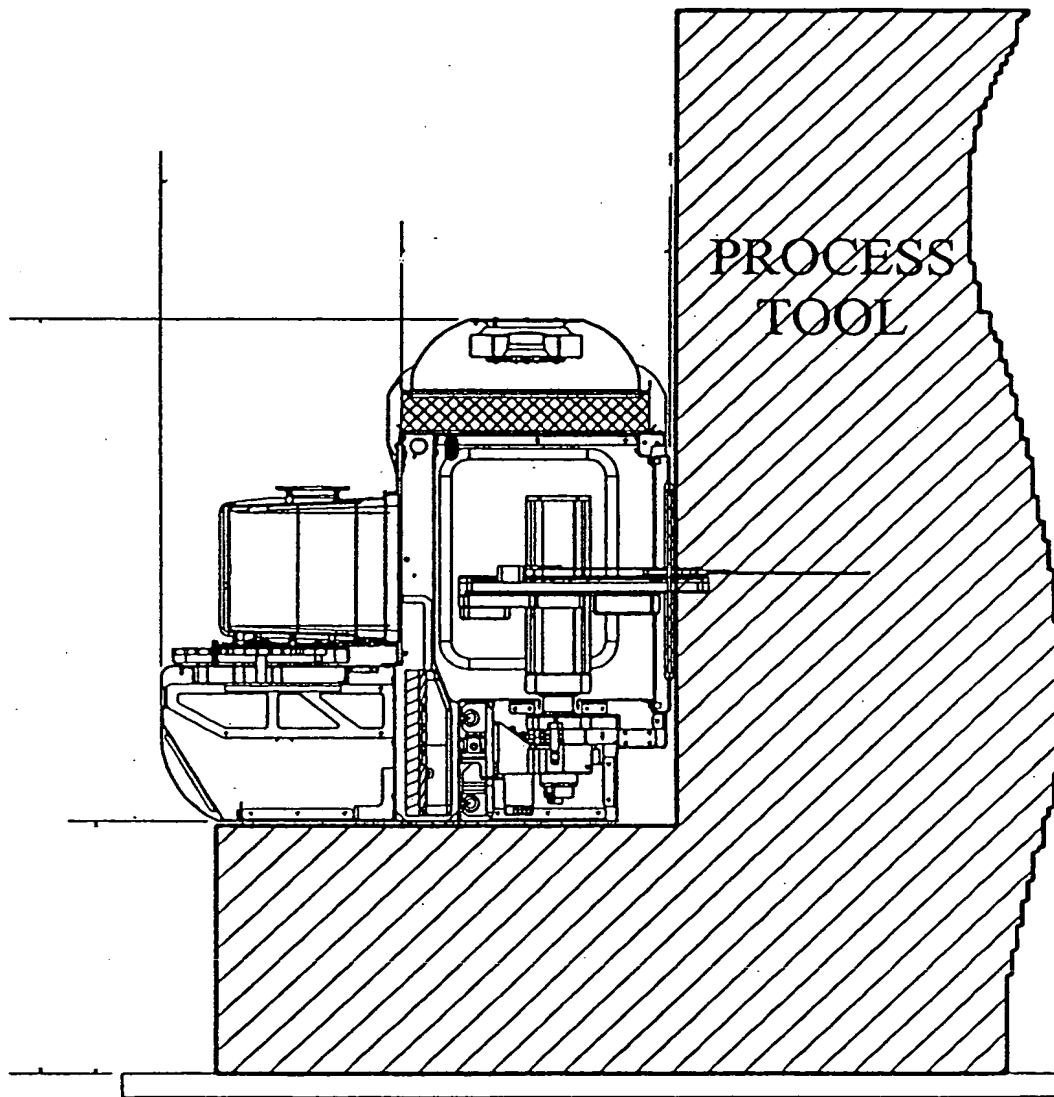


FIG. 30B

10087099.030102  
2010E01 2607800T

10087092.030102

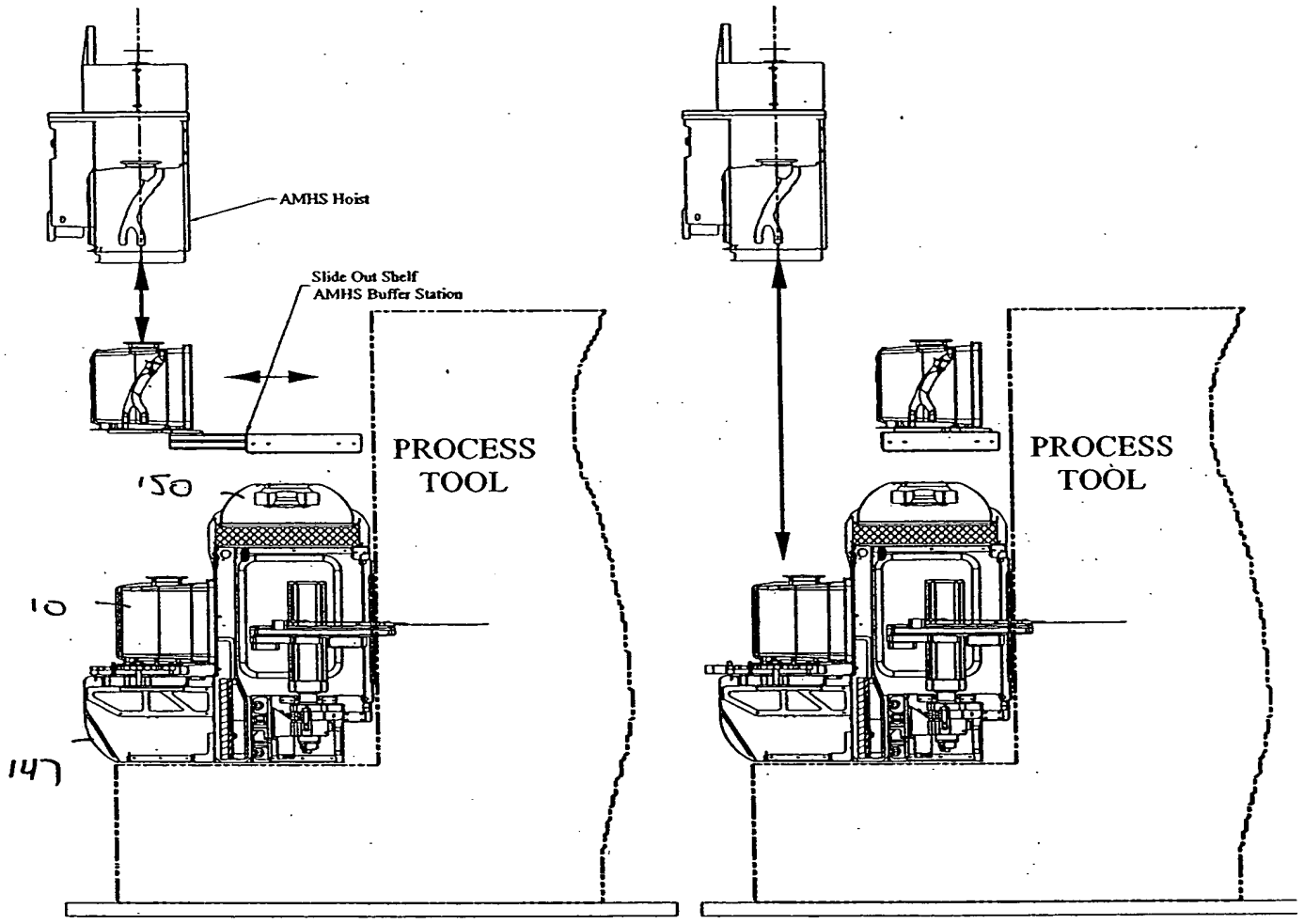


FIG. 31